

KENWOOD

Listen to the Future



TK-290/390

VHF/UHF FM Transceivers

FleetSync[®]
by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz)
- 4 W (403-430, 450-490, 470-512 MHz)
- 160 Channels / 16 Channel Groups¹
- QT / DQT
- Dual Priority Scan
- Single & Multi-Group Scan
- 7-Character Alphanumeric Aliases
- Lighted 13-Segment LCD
- Inverting LCD Display
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 2 Top Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key (side)
- 2-Position PF Toggle Switch (top)
- 12-Key DTMF Keypad Models
- 500 mW Speaker Audio
- Companded Audio
- Encryption / ANI Board Control
- Emergency Call Features
- Emergency Man-Down Option
- Two-Tone Decode²
- Operator Selectable Tone²
- DTMF Encode / Decode³
- Time Out Timer
- Busy Channel Lockout
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Options
- Windows[®] Programming & Tuning⁴
- Windows[®] Firmware Uploading⁴
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- Intrinsically Safe Option (USTC)
- MSHA Mine Safety Intrinsically Safe Option

FleetSync^{®5}

- PTT ID Digital ANI⁵
- Emergency Status⁵



*Two models available:
With or without keypad.*

Options

■ KNB-17A

Ni-Cd Battery
(7.2 V, 1500 mAh)

■ KNB-17BK

Ni-Cd Battery
Intrinsically Safe
(7.2 V, 1500 mAh)

■ KNB-21N

Ni-MH Battery
(7.2 V, 1600 mAh)

■ KNB-22N

Ni-MH Battery
(7.2 V, 2100 mAh)

■ KNB-22NC

Ni-MH Battery Intrinsically Safe
(7.2 V, 2100 mAh)

■ KNB-44BK

Ni-Cd Battery MSHA
(7.2 V, 1500 mAh)



■ KBP-4

AA Refillable Battery Pack
(Holds 12 AA-Size Cells)



■ KRA-26

VHF Helical Antenna



■ KRA-27

UHF Whip Antenna



■ KSC-19

Regular Charger
Ni-Cd Charger



■ KSC-24

Rapid Charger
Dual-chemistry
Ni-Cd/Ni-MH Charger

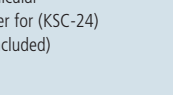


■ KVC-3

Regular Rate
Vehicular Charger
Adapter

■ KVC-4

Rapid Rate Vehicular
Charger Adapter for (KSC-24)
(Charger not included)



■ KEP-1

Earphone Coil Cord Kit



■ KMC-25

Speaker Microphone
(MIL-SPEC, Noise Canceling)



■ KMC-26

Speaker Microphone
(MIL-SPEC, Noise Canceling
and Antenna Connector)



■ KBH-8DS

Swivel Belp Loop
with D-Stub Back Plate



Specifications

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

| Model | TK-290 | TK-390 |
|--|--|------------------------------------|
| GENERAL | | |
| Frequency Range | | |
| Type 1 | 136-174 MHz | 450-490 MHz |
| Type 2 | | 470-512 MHz |
| Type 3 | | 403-430 MHz |
| Number of Channels | 160 | |
| Channel Spacing | | |
| Wide | 25, 30 kHz | 25 kHz |
| Narrow | 12.5, 15 kHz (PLL step: 5/6.25/7.5 kHz) | 12.5 kHz (PLL step: 5/6.25 kHz) |
| Battery Voltage | 7.5 V DC ± 20 % | |
| Battery Life (5-5-90 duty cycle) | | |
| With KNB-17A | 10 hours at 5W | 10 hours at 4 W |
| Operating Temperature Range | -22 °F ~ +140 °F (-30 °C ~ +60 °C) | |
| Frequency Stability (-22 °F ~ +140 °F) | ±0.00025% ±0.0002% | |
| Antenna Impedance | 50 Ω | |
| Channel Frequency Spread | | |
| Type 1 | 38 MHz | 40 MHz |
| Type 2 | | 42 MHz |
| Type 3 | | 27 MHz |
| Dimensions (W x H x D), Projections not included | 2-5/16" x 6-3/32" x 1-1/2" (58 x 155 x 38 mm) | |
| Keypad Model | 2-5/16" x 6-3/32" x 1-9/16" (58 x 155 x 39.5 mm) | |
| Weight (net) | 1.25 lbs. (565g) with antenna and belt hook | |
| FCC ID | | |
| Type 1 | ALH21893110 | ALH21903110 |
| Type 2 | - | ALH21903120 |
| Type 3 | - | ALH21903130 |
| IC Certification | | |
| Type 1 | 282195345A | 282195341A |
| Type 3 | - | 282195393A |

| Model | TK-290 | TK-390 |
|---|--------------------------------------|--------------------|
| RECEIVER (Measurements made per RS-316-B) | | |
| Sensitivity (12 dB SINAD) (20 dB Quietening) | | 0.25 μV 0.35 μV |
| Selectivity | | |
| Wide | 75 dB | 73 dB |
| Narrow | 70 dB | 68 dB |
| Intermodulation Distortion | | |
| Wide | 75 dB | 73 dB |
| Narrow | 68 dB | 65 dB |
| Spurious Response | 75 dB | 73 dB |
| Audio Output | 500 mW with less than 3 % distortion | |
| TRANSMITTER (Measurements made per RS-316-B) | | |
| RF Power Output | | |
| High | 5 W | 4 W |
| Low | 1 W | 1 W |
| Spurious Response | 70 dB | |
| Type of Emission | | |
| Wide | 16K0F3E | |
| Narrow | 11K0F3E | |
| FM Hum & Noise | | |
| Wide | 45 dB | |
| Narrow | 40 dB | |
| Audio Distortion | | |
| Wide/Narrow | Less than 3 % | |

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

FleetSync® is a registered trademark of Kenwood Corporation.

Applicable MIL-STD

| Standard | MIL 810C Methods/Procedures | MIL 810D Methods/Procedures | MIL 810E Methods/Procedures | MIL 810F Methods/Procedures |
|-------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Low Pressure | 500.1/Procedure I | 500.2/Procedure I, II | 500.3/Procedure I, II | 500.4/Procedure I, II |
| High Temperature | 501.1/Procedure I, II | 501.2/Procedure I, II Cat. A1 | 501.3/Procedure I, II Cat. A1 | 501.4/Procedure I, II |
| Low Temperature | 502.1/Procedure I | 502.2/Procedure I, II Cat. C1 | 502.3/Procedure I, II Cat. C1 | 502.4/Procedure I, II Cat. C1 |
| Temperature Shock | 503.1/Procedure I | 503.2/Procedure I, Cat. A1, C1 | 503.3/Procedure I, Cat. A1, C1 | 503.4/Procedure I, II |
| Solar Radiation | 505.1/Procedure I | 505.2/Procedure I | 505.3/Procedure I | 505.4/Procedure I |
| Rain | 506.1/Procedure I, II | 506.2/Procedure I, II | 506.3/Procedure I, II | 506.4/Procedure I, III |
| Humidity | 507.1/Procedure I, II | 507.2/Procedure II, III | 507.3/Procedure II, III | 507.4 |
| Salt Fog | 509.1/Procedure I | 509.2/Procedure I | 509.3/Procedure I | 509.4 |
| Dust | 510.1/Procedure I | 510.2/Procedure I | 510.3/Procedure I | 510.4/Procedure I, III |
| Vibration | 514.2/Procedure VIII, X | 514.3/Procedure I, Cat. 8 | 514.4/Procedure I, Cat. 8 | 514.5/Procedure I, Cat. 20 |
| Shock | 516.2/Procedure I, II, V | 516.3/Procedure I, IV | 516.4/Procedure I, IV | 516.5/Procedure I, IV |

Footnotes from Front:

- Channel Capacity: 16 Channel Groups; 1-160 CH's per group up to 160 Channel Maximum per Radio.
- Two-Tone Decode (3 sets x 2 pairs each); Operator Selectable Tone on Keypad models only (16 QT/DQT code pairs)
- DTMF encode includes PTT ID, Emergency ANI, Manual Encode (keypad models), Auto-Dial (9 numbers), DTMF Decode includes primary (individual) & Secondary (group) selective call and DBD codes.
- KPG-38D required: Windows®98/NT/2000/Mel/XP compatible.
- FleetSync® is not compatible with FleetSync® II. PTT ID and Emergency Status Encode only.

KENWOOD

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ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification